Name: _____ Class: _____ Date: _____ ID: A

Foundations of Geometry Chapter 2 A Assessment REVIEW

Short Answer

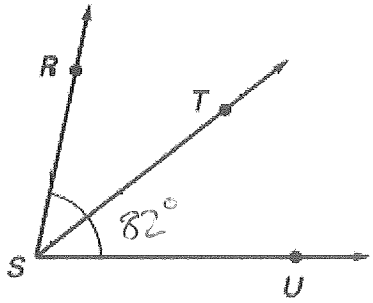
M is the midpoint of the segment. Find the segment lengths.

1. Find AM and MC.

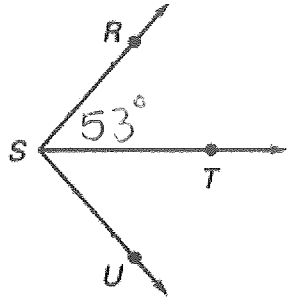
2. Find MT and RT.

$\overrightarrow{ST}$ bisects $\angle RSU$. Find the angle measures.

3. Find $m\angle RST$ and $m\angle TSU$.

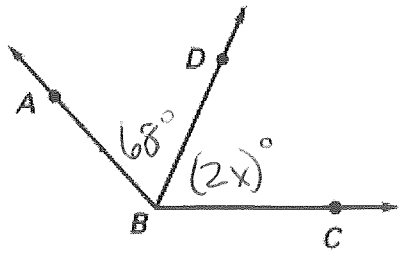


4. Find $m\angle TSU$ and $m\angle RSU$.



$\overrightarrow{BD}$ bisects $\angle ABC$. Find the value of the variable.

5.



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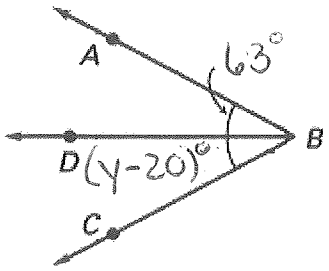
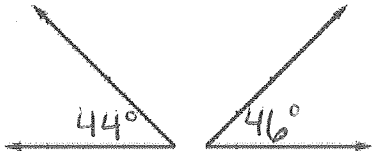


Determine whether the angles are complementary, supplementary, or neither. Then tell whether they are adjacent or nonadjacent.

7.



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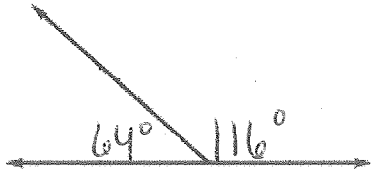
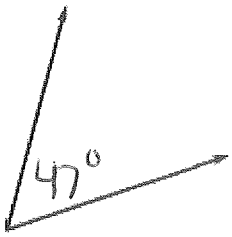


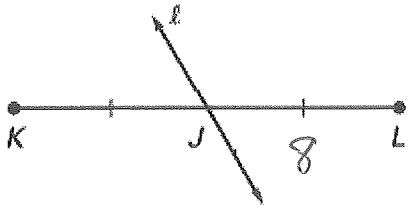
Find the measure of a complement and supplement of the angle.

9.

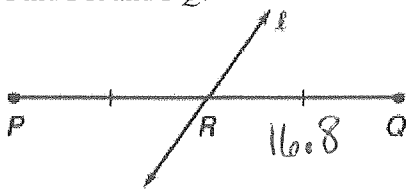
10.



11. Find *KJ* and *KL*



12. Find PR and PQ.



Find the coordinates of the midpoint of $\overline{AB}$.

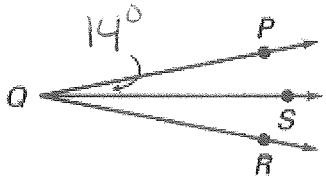
13. $A(0, 8)$, $B(4, 6)$.

14. $A(8, 1)$, $B(2, 13)$.

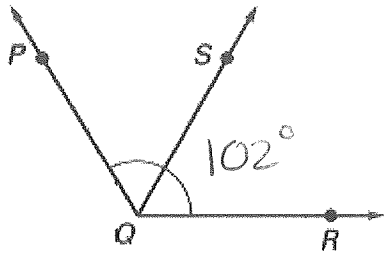
15. $A(-7,-6)$, $B(13,4)$

$\overrightarrow{QS}$ bisects $\angle PQR$. Find the angle measures.

16. Find $m\angle SQR$ and $m\angle PQR$.

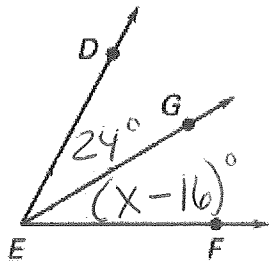


17. Find $m\angle PQS$ and $m\angle SQR$.



$\overrightarrow{EG}$ bisects $\angle DEF$. Find the value of x.

18.



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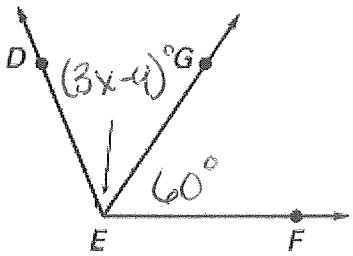


20. $\angle C$ is complement of $\angle D$, and $m\angle C = 48^\circ$. Find $m\angle D$.

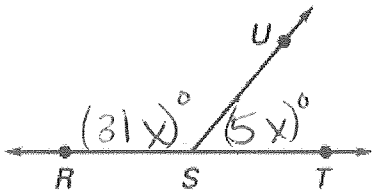
21. $\angle E$ is complement of $\angle F$, and $m\angle E = 63^\circ$. Find $m\angle F$.

22. $\angle G$ is supplement of $\angle H$, and $m\angle G = 41^\circ$ Find $m\angle H$.

23. $\angle L$ is supplement of $\angle M$, and $m\angle L = 164^\circ$. Find $m\angle M$.

Find the value of the variable. Then use substitution to find $m\angle RSU$ and $m\angle UST$.

24.



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